

A B S T R A C T

The invention relates to a system and method for determining wavelength dependent information in optical signal transmission systems. According to the invention after a plurality of optical signals at different wavelengths are launched into the transmission system, backscattered and/or reflected signal portions are received for each wavelength, and subsequently processed to determine wavelength dependent information about the transmission system. With the present invention the gain evolution along the transmission link can be measured, after the transmission system is installed. In particular this is advantageous for submarine optical signal transmission systems.

[Fig.4]